

US-PAT-NO: 6060701

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TITLE: Compact quick-cooking  
convectional oven

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Operation of the thermal energy source 25 may be controlled by the control means 250 to be discussed hereinafter, including a thermostat and a cutoff switch which cuts off power to the thermal energy source 25 under at least two conditions. In the first condition, the power supply is being used for the magnetron or hot air blower, and there is insufficient power to enable the magnetron 100, hot air blower motor 40a and heating means 25 to be simultaneously operated. In the second condition, either the actual temperature of the thermal energy source 25 or the actual temperature of the air entering the cooking chamber 16 exceeds a "set" temperature. To this end, the thermal energy source 25 and the entry to the cooking chamber 16 are preferably provided with separate temperature-sensing mechanisms 30 and 30' (such as a thermocouple or resistive thermal device) positioned so as to measure the temperature of the air at these critical points.